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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/665,920	09/18/2003	Edward E. Miller	L03-024	7064	
29416	7590 07/13/2005		EXAMINER		
LATTICE SEMICONDUCTOR CORPORATION			NGUYEN, HIEP		
5555 NE MOC HILLSBORO,	ORE COURT OR 97124-6421		ART UNIT	PAPER NUMBER	
,			2816		

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					-4K		
		Appl	ication No.	Applicant(s)			
Office Action Commence		10/6	65,920	MILLER, EDWARD	<i>E</i> .		
	Office Action Summary	Exan	niner	Art Unit			
			Nguyen	2816			
Period fo	The MAILING DATE of this communor Reply	nication appears o	n the cover sheet (with the correspondence add	lress		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (3 period for reply is specified above, the maximum so ure to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In nunication. 30) days, a reply within the tatutory period will apply y will, by statute, cause the	no event, however, may a ne statutory minimum of the and will expire SIX (6) MO ne application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) file	ed on <i>22 April 20</i> 0	05 .				
′—							
3)	Since this application is in condition	· —		itters, prosecution as to the	merits is		
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	 ✓ Claim(s) 20-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ✓ Claim(s) 20-22,28 and 29 is/are allowed. ✓ Claim(s) 23 and 25-27 is/are rejected. ✓ Claim(s) 24 is/are objected to. ✓ Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers						
9)□	The specification is objected to by th	ie Examiner.					
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any obje	ection to the drawing	g(s) be held in abey	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correction is re	equired if the drawir	g(s) is objected to. See 37 CFF	R 1.121(d).		
11)	The oath or declaration is objected to	o by the Examine	r. Note the attach	ed Office Action or form PTO)-152 .		
Priority (under 35 U.S.C. § 119		·				
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have documents have of the priority do onal Bureau (PCT	been received. been received in cuments have been Rule 17.2(a)).	Application No n received in this National S	Stage		
Attachmen	• •						
	ce of References Cited (PTO-892)	TO 046;		Summary (PTO-413)			
3) 🔲 Infor	ee of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or or No(s)/Mail Date			o(s)/Mail Date · Informal Patent Application (PTO- 	152)		

DETAILED ACTION

The amendment filed on 04-22-05 has been received and entered in the case. New ground of rejections necessitated by the amendment is set forth below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 23 and 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (4,258,272).

Regarding claim 23, figure 6 of Huang shows comparator comprising an input amplifier including: first pair of input transistors (P1", P2"); second pair of input transistors (N1", N4") a summing stage (node 32) and a feedback stage (P5", N5", P6", N6").

Regarding claim 25, first and second hysteresis transistors (P6" N6") supply current to the summing stage.

Regarding claims 26 and 27, the recitation "integrated within a programmable analog integrated circuit" in claim 26, "analog circuit blocks", "an analog routing pool" in claim 27 are merely intended use thus, they do not further limit the limitations of claim 23. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987). Therefore, these limitations have not been given patentable weight.

Allowable Subject Matter

Claims 20-22, 28 and 29 are allowed.

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Claim 24 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 20-22, 28 and 29 are allowed because the prior art of records (4,258,272) fails to teach or suggest a comparator comprising first and second mirrors coupled to first and second pairs of input amplifier and first and second hysteresis transistors coupled to first and second current mirrors as called for in claim 20; a comparator comprising a summing stage including first and second current mirrors for summing first and second pairs of input amplifier output signals as called for in claim 28. Therefore, claims 20-22, 28 and 29 are presently allowed.

Claim 24 is objected to because the prior art of records (4,258,272) fails to teach or suggest a comparator comprising first and second mirrors coupled to first and second pairs of input amplifier for summing first and second pairs of input amplifier output signals.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

07-07-05

V TUANT.LAM PRIMARY EXAMINER